

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("5923111").PN.	US-PGPUB; USPAT	OR	OFF	2007/10/26 13:56
S2	94	permanent with magnet with motor and "166"\$. ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 13:59
S3	59	permanent with magnet with motor and "166"\$. ccls. and pump	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 13:57
S4	21	permanent with magnet with motor same pump and "166"\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 14:07
S5	27	permanent with magnet with motor same pump and wellbore	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 14:08
S6	0	permanent with magnet with motor same pump and dowhole	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 14:08
S7	53	permanent with magnet with motor same pump and (downhole down adj hole borehole bore adj hole)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 14:08
S8	26	permanent with magnet with motor same pump and well adj bore	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 14:25
S9	58	S5 S7 S8	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 14:09
S10	37	S9 not S4	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 14:13
S11	3740	(166/67-74,105- 112,369,372).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/10/26 14:14
S12	10	S11 and permanent with motor with magnet and centrifugal	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 14:14
S13	29	permanent with magnet with motor same pump same rpm	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/26 14:26
S14	99	synchronous adj permanent adj magnet adj motor	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 06:50
S15	0	S14 and "166"\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 06:50
S16	0	S14 and "175"\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 06:50

S17	1	S14 and (wellbore borehole downhole oilfield downwell subterranean (oil near well) (well near bore))	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 06:52
S18	2975	synchronous with permanent with magnet with motor	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 07:17
S19	6	S18 and "166"\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 07:18
S20	5	S18 and "175"\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 07:18
S21	11	S19 S20	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 07:18
S22	99	synchronous adj permanent adj magnet adj motor	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 07:25
S23	5	S22 same pump	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 07:25
S24	0	S22 same submersible	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 07:27
S25	13047	submersible	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 07:28
S26	143	S18 same pump	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 07:29
S27	7	S25 same S26	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 07:29
S28	69	S18 same rpm	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 07:47
S29	3	S22 same rpm	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/18 07:47
S30	2	((("2607816") or ("5580282")).PN.	US-PGPUB; USPAT	OR	OFF	2008/04/25 07:17
S31	0	synchronouns with permanent with magnet with motor same submersible same pump	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/25 07:19
S32	7	synchronous with permanent with magnet with motor same submersible same pump	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/25 07:19
S33	11	synchronous with permanent with magnet with motor same submersible and pump	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/25 07:24
S34	4	S33 not S32	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/25 07:25

S35	4	synchronous with permanent with magnet with motor same submersible and pump	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/04/25 07:26
S36	15	synchronous with permanent with magnet with motor same submersible	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/04/25 07:28
S37	9542750	"15" not (S33 S35)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/04/25 07:28
S38	0	S36 not (S33 S35)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/04/25 07:28
S39	70	synchronous with permanent with magnet with motor same rpm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/04/25 07:30
S40	1	synchronous with permanent with magnet with motor same rpm	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/04/25 07:30
S41	7	synchronous with permanent with magnet with motor and rpm	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/04/25 07:31
S42	488	synchronous with permanent with magnet with motor and rpm	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/25 07:33
S43	101184	S42 nto S39	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/25 07:33
S44	419	S42 not S39	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/25 07:33

S45	12	(US-20020066568-\$ or US-20070114015-\$ or US-20070110596-\$).did. or (US-5923111-\$ or US-6557642-\$ or US-6260626-\$ or US-6230810-\$ or US-6388353-\$ or US-6376958-\$ or US-6936945-\$ or US-7181928-\$ or US-4371801-\$).did.	US-PGPUB; USPAT	OR	ON	2008/04/25 11:33
S46	305901	S45 adn rpm	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/25 11:33
S47	7	S45 and rpm	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/25 11:33
S48	31	synchronous with permanent with magnet with motor and submersible	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/04/25 11:42
S49	1	("20020066568").PN.	US-PGPUB; USPAT	OR	OFF	2008/04/25 11:44
S50	1	("5923111").PN.	US-PGPUB; USPAT	OR	OFF	2008/04/25 11:46
S51	12	(US-20020066568-\$ or US-20070114015-\$ or US-20070110596-\$).did. or (US-5923111-\$ or US-6557642-\$ or US-6260626-\$ or US-6230810-\$ or US-6388353-\$ or US-6376958-\$ or US-6936945-\$ or US-7181928-\$ or US-4371801-\$).did.	US-PGPUB; USPAT	OR	ON	2008/04/28 07:23
S52	7	S51 and rpm	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/28 07:23
S53	12	(US-20020066568-\$ or US-20070114015-\$ or US-20070110596-\$).did. or (US-5923111-\$ or US-6557642-\$ or US-6260626-\$ or US-6230810-\$ or US-6388353-\$ or US-6376958-\$ or US-6936945-\$ or US-7181928-\$ or US-4371801-\$).did.	US-PGPUB; USPAT	OR	ON	2008/04/28 07:52
S54	7	S53 and rpm	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/28 07:52

S55	226	permanent with magnet with motor and (well adj bore wellbore downhole)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 15:08
S56	55	S55 and three with phase	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 15:09
S57	2524	permanent with magnet with motor same three same phase	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 15:10
S58	1509	permanent with magnet with motor with three with phase	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 15:11
S59	14	S58 and (well adj bore wellbore downhole)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 15:11
S60	1	("4178579").PN.	US-PGPUB; USPAT	OR	OFF	2008/12/08 16:07
S61	5101	voltage with chopper	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 16:20
S62	479	voltage adj chopper	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 16:21
S63	528	S58 same synchronous	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 16:29
S64	760	S58 and synchronous	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 16:29
S65	12	S59 and synchronous	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 16:30
S66	0	S60 and synchronous	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 16:30
S67	0	permanent with magnet with motor same three same phase same synchronous	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 16:31
S68	843	permanent with magnet with motor same three same phase same synchronous	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 16:31
S69	36	S61 and S68	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/08 16:31
S70	6	variable with voltage with chopper and (downhole wellbore well adj bore borehole bore adj hole)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/22 10:48
S71	1	variable with voltage with chopper and "166"\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/22 11:26
S72	0	variable with voltage with chopper and "301"\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/22 11:26
S73	8	variable with voltage with chopper and "310"\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/22 11:27
S74	426	permanent with magnet with motor with synchronous with ac	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/22 11:32

S75	641	permanent with magnet with motor with synchronous with ac	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/22 11:33
S76	5	S75 and phases with continuous\$3 with driven	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/22 11:33
S77	82	three with phases with continuous\$3 with driven	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/22 11:34
S78	1	("2233890").PN.	US-PGPUB; USPAT	OR	OFF	2008/12/22 11:59
S79	0	three with phase with motor with continously	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/22 12:03
S80	0	three with phase with motor with continuous\$3	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/22 12:03
S81	411	three with phase with motor with continuous\$3	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/22 12:03
S82	503	three with phase with motor with continuous\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/22 12:03
S83	6367	permanent with magnet with motor with synchronous	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/22 12:04
S84	27	S82 and S83	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/22 12:04
S85	6	"562225".ap.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/22 12:13

S86	6	"562255".ap.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/22 12:14
S87	8864	three adj phase with motor with driv\$3	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/22 12:17
S88	1801	three adj phase adj motor with driv\$3	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/22 12:18
S89	0	three adj phase adj motor with continous\$3 with driv \$3	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/22 12:18
S90	16	three adj phase adj motor with continuous\$3 with driv\$3	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/22 12:18
S91	209	continuously with three adj phase with motor	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 06:32
S92	120	S91 and (ac alternating adj current)	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 06:41
S93	0	S92 and sychronous with permanent with magnet	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 06:42
S94	0	S92 and (synchronous with permanent with magnet)	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 06:42
S95	13	S92 and (synchronous with permanent with magnet)	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 06:42
S96	37	("3223968"   "3252131"   "3315224"   "3340500"   "3483749"   "3495212"   "3533034").PN. OR ("4178579").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 07:03
S97	3216	permanent with magnet with motor with synchronous	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 07:16
S98	12	S97 and "340"\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 07:16
S99	64	S97 and three adj phase with constant with current	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 07:18
S100	65	S97 and three adj phase with constant\$2 with current	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 07:18
S101	6	"562255".ap.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 07:22
S102	203	sinusoidal\$ with motor with voltage with three adj phase	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 07:26
S103	43	S97 and S102	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 07:27

S104	0	model with rotor with position	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 07:59
S105	342	model with rotor with position	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 07:59
S106	57	S97 and S105	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 08:00
S107	481	voltage adj chopper	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 10:07
S108	3216	permanent with magnet with motor with synchronous	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 10:08
S109	8	S107 and S108	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 10:08
S110	5131	voltage with chopper	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 10:08
S111	56	S110 and S108	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 10:09
S112	84	three adj phase with motor with driven with (continous\$2 constant\$2 continual\$2)	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 10:42
S113	1	("6025691").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/05 10:47
S114	1	("6025691").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/05 11:01
S115	12243	S113 adn S112	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 11:02
S116	0	S113 and "66"	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 11:02
S117	1	S113 and S112	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/05 11:02

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